

**FD Trinitron**  
**WEGA**

**KD-30XS955 | KD-34XS955 | KD-36XS955**

**Operating Instructions**



## WARNING

To reduce the risk of fire or shock hazard, do not expose the TV to rain or moisture.



This symbol is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

## CAUTION

TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

## CAUTION

When using TV games, computers, and similar products with your TV, keep the brightness and contrast functions at low settings. If a fixed (non-moving) pattern is left on the screen for long periods of time at a high brightness or contrast setting, the image can be permanently imprinted onto the screen. Continuously watching the same program can cause the imprint of station logos onto the TV screen. These types of imprints are not covered by your warranty because they are the result of misuse.

## Warning (KD-34XS955 only)

The CRT in this product employs a protective film on the face. This film must not be removed as it serves a safety function and removal will increase the risk of serious injury.

## Note on Caption Vision

This television receiver provides display of television closed captioning in accordance with §15.119 of the FCC rules.

## Note on Cleaning the TV

Clean the TV with a soft, dry cloth. Never use strong solvents such as thinner or benzene, which might damage the finish of the cabinet.

## Note to CATV System Installer

This reminder is provided to call the CATV system installer’s attention to Article 820-40 of the National Electrical Code (NEC) that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

Use of this television receiver for other than private viewing of programs broadcast on UHF or VHF or transmitted by cable companies for the use of the general public may require authorization from the broadcaster/cable company and/or program owner.

## NOTIFICATION

This equipment has been tested and found to comply with the limits for a Class B digital device pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference with radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- ☐ Reorient or relocate the receiving antennas.
  - ☐ Increase the separation between the equipment and receiver.
  - ☐ Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
  - ☐ Consult the dealer or an experienced radio/TV technician for help.
- You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

## Installing

- ☐ To prevent internal heat buildup, do not block the ventilation openings.
- ☐ Do not install the TV in a hot or humid place, or in a place subject to excessive dust or mechanical vibration.
- ☐ The AC power cord is attached to the rear of the TV with hooks. Do not attempt to remove the cord from these hooks. Doing so could cause damage to the TV.

## Owner’s Record

The model and serial numbers are provided on the front of this instruction manual and at the rear of the TV. Refer to them whenever you call upon your Sony dealer regarding this product.

## Note

This digital television is capable of receiving analog basic, digital basic and digital premium cable television programming by direct connection to a cable system providing such programming. A security card provided by your cable operator is required to view encrypted digital programming. Certain advanced and interactive digital cable services such as video-on-demand, a cable operator’s enhanced program guide and data-enhanced television services may require the use of a set-top box. For more information call your local cable operator.

This television also includes a QAM demodulator which should allow you to receive unscrambled digital cable television programming via subscription service to a cable service provider. Availability of digital cable television programming in your area depends on the type of programming and signal provided by your cable service provider.

# IMPORTANT SAFEGUARDS

For your protection, please read these instructions completely, and keep this manual for future reference.

Carefully observe and comply with all warnings, cautions and instructions placed on the set, or described in the operating instructions or service manual.

## WARNING

To guard against injury, the following basic safety precautions should be observed in the installation, use, and servicing of the set.

## Use

### Power Sources

This set should be operated only from the type of power source indicated on the serial/model plate. If you are not sure of the type of electrical power supplied to your home, consult your dealer or local power company. For those sets designed to operate from battery power, refer to the operating instructions.



### Grounding or Polarization

This set is equipped with a polarized AC power cord plug (a plug having one blade wider than the other), or with a three-wire grounding type plug (a plug having a third pin for grounding). Follow the instructions below:

#### For the set with a polarized AC power cord plug

This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to have a suitable outlet installed. Do not defeat the safety purpose of the polarized plug by forcing it in.



#### Alternate Warning

#### For the set with a three-wire grounding type AC plug

This plug will only fit into a grounding-type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to have a suitable outlet installed. Do not defeat the safety purpose of the grounding plug.



### Overloading

Do not overload wall outlets, extension cords or convenience receptacles beyond their capacity, since this can result in fire or electric shock.



Always turn the set off when it is not to be used. When the set is left unattended and unused for long periods of time, unplug it from the wall outlet as a precaution against the possibility of an internal malfunction that could create a fire hazard.



Do not disconnect the antenna or the power cord during a heavy storm. Lightning may strike while you are holding the cable or cord, causing serious injury. Turn off your TV and wait for the weather to improve.

### Memory Stick

To protect small children from injury from Memory Stick Media, remove all Memory Stick media from the TV's Memory Stick slot and store it in a safe location when it is not in use.

## Object and Liquid Entry

Never push objects of any kind into the set through the cabinet slots as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the set.



## Attachments

Do not use attachments not recommended by the manufacturer, as they may cause hazards.

Do not place any objects, especially heavy objects, on top of the set. The object may fall from the set, causing injury.



## Cleaning

Unplug the set from the wall outlet before cleaning or polishing it. Do not use liquid cleaners or aerosol cleaners. Use a cloth lightly dampened with water for cleaning the exterior of the set.



If a snapping or popping sound from a TV set is continuous or frequent while the TV is operating, unplug the TV and consult your dealer or service technician. It is normal for some TV sets to make occasional snapping or popping sounds, particularly when being turned on or off.



## Installation

Always use two or more people to lift or move the set. The set is heavy and the bottom surface is flat. Serious injury can result from trying to move the set by yourself alone, or from unsteady handling. Install the set on a stable, level surface.

## Water and Moisture

Do not use power-line operated sets near water — for example, near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, etc.



## Accessories

Do not place the set on an unstable cart, stand, tripod, bracket, table or shelf. The set may fall, causing serious injury to a child or an adult, and serious damage to the set. Use only a cart or stand recommended by the manufacturer for the specific model of TV. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer. An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.



Disconnect all cables and cords from the set before attempting to move the set.

Do not allow children or pets to climb up onto, or push against, the set. The set may fall, causing serious injury.

## Ventilation

The slots and openings in the cabinet and in the back or bottom are provided for necessary ventilation. To ensure reliable operation of the set, and to protect it from overheating, these slots and openings must never be blocked or covered.

- ❑ Never cover the slots and openings with a cloth or other materials.
- ❑ Never block the slots and openings by placing the set on a bed, sofa, rug or other similar surface.
- ❑ Never place the set in a confined space, such as a bookcase, or built-in cabinet, unless proper ventilation is provided.
- ❑ Do not place the set near or over a radiator or heat register, or where it is exposed to direct sunlight.



## Power Cord Protection

Do not allow anything to rest on or roll over the power cord, and do not place the set where the power cord is subject to wear or abuse.



## Antennas

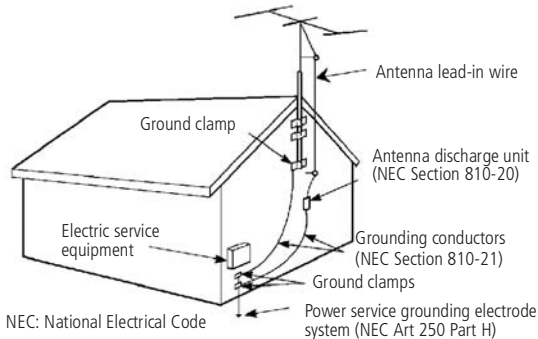
### Outdoor Antenna Grounding

If an outdoor antenna is installed, follow the precautions below. An outdoor antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can come in contact with such power lines or circuits.

WHEN INSTALLING AN OUTDOOR ANTENNA SYSTEM, EXTREME CARE SHOULD BE TAKEN TO KEEP FROM CONTACTING SUCH POWER LINES OR CIRCUITS AS CONTACT WITH THEM IS ALMOST INVARIABLY FATAL.

Be sure the antenna system is grounded so as to provide some protection against voltage surges and built-up static charges. Section 810 of the National Electrical Code (NEC) in USA and Section 54 of the Canadian Electrical Code in Canada provide information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

### Antenna Grounding According to the National Electrical Code, ANSI/NFPA 70



NEC: National Electrical Code

## Lightning

For added protection for this television receiver during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna. This will prevent damage to the receiver due to lightning and power line surges.

## Service

### Damage Requiring Service

Unplug the set from the wall outlet and refer servicing to qualified service personnel under the following conditions:

- ❑ When the power cord or plug is damaged or frayed.
- ❑ If liquid has been spilled into the set or objects have fallen into the product.
- ❑ If the set has been exposed to rain or water.
- ❑ If the set has been subject to excessive shock by being dropped, or the cabinet has been damaged.
- ❑ If the set does not operate normally when following the operating instructions. Adjust only those controls that are specified in the operating instructions. Improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the set to normal operation.
- ❑ When the set exhibits a distinct change in performance, it indicates a need for service.



## Servicing

Do not attempt to service the set yourself since opening the cabinet may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.



## Replacement Parts

When replacement parts are required, be sure the service technician certifies in writing that he has used replacement parts specified by the manufacturer that have the same characteristics as the original parts.

Unauthorized substitutions may result in fire, electric shock or other hazards.



## Safety Check

Upon completion of any service or repairs to the set, ask the service technician to perform routine safety checks (as specified by the manufacturer) to determine that the set is in safe operating condition, and to so certify. When the set reaches the end of its useful life, improper disposal could result in a picture tube implosion. Ask a qualified service technician to dispose of the set.



## Trademark Information

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This TV incorporates High-Definition Multimedia Interface (HDMI™) technology. HDMI, the HDMI logo and

High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.

CableCARD™ is a trademark of Cable Television Laboratories, Inc.

Wega, FD Trinitron, Steady Sound, Digital Reality Creation, CineMotion, Memory Stick, Memory Stick Duo, Memory Stick PRO, Memory Stick PRO Duo, MagicGate, Super Fine Pitch, MID, Clear Edge, ClearEdge VM and HD Detailer are trademarks of Sony Corporation.

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# Introducing the *FD Trinitron Wega*

## Overview

This chapter describes the contents of the package in which the TV is shipped and provides an overview of the features of your Wega TV.

## Presenting the *FD Trinitron Wega*

The FD Trinitron Wega (pronounced VAY-GAH) is characterized by outstanding contrast, uncompromising accuracy, and corner-to-corner detail.

You will recognize the superiority of Wega technology almost immediately. The first thing you will probably notice is minimal glare from the flat picture tube. This flat-screen technology improves picture detail without distortion, unlike conventional curved screens. The FD Trinitron delivers outstanding image detail not only at the screen center, but also at the corners — so you can enjoy a bright, clear picture from any location in a room.

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## Package Contents

Along with your new Trinitron TV, the packing box contains a remote control and two AA (R6) batteries. These items are all you need to set up and use the TV.

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## Features

Some of the features that you will enjoy with your new TV include:

- ❑ **Built-in Digital Television Receiver:** You can watch digital television programs and enjoy the improved audio/video quality offered by these programs. With high-definition signal reception, you can watch TV signals broadcast in HDTV for the clearest possible broadcast picture.
- ❑ **CableCARD slot:** Provides cable subscribers with access to digitally encrypted cable channels — without the need for a set-top box — that will enable you to receive not only standard definition but also high definition television. The CableCARD, which is provided by your cable TV company, is inserted into the TV's rear panel CableCARD slot. After the service is activated with your cable TV company, the card replaces the need for a separate set-top box. (Check with your cable TV company about CableCARD service details, limitations, pricing, and availability. For more information about CableCARD in this manual, see pages 15 and 41.)

- ❑ **Screen Mode:** Enables you to resize the picture.
- ❑ **Super Fine Pitch CRT:** Created especially for displaying high resolution pictures, the new Super Fine Pitch CRT — along with a new electron gun and high intensity luminescent phosphor — improves image resolution, providing the highest picture quality reproduction from corner to corner.
- ❑ **DRC<sup>®</sup> (Digital Reality Creation) Multifunction:** Unlike conventional line doublers, the DRC Multifunction feature replaces the signal's NTSC waveform with the near-HD equivalent, while doubling the number of vertical and horizontal lines. This results in four times the density for quality sources, such as DVD, satellite, and digital camcorders. The Video Menu allows you to select interlaced, progressive, or CineMotion<sup>™</sup> output.
- ❑ **Favorite Channels:** Allows you to select from 16 of your favorite channels.
- ❑ **ClearEdge VM<sup>™</sup> Velocity Modulation:** Sharpens picture definition by enhancing vertical lines.
- ❑ **Steady Sound<sup>®</sup>:** Equalizes volume levels so there is consistent output between programs and commercials.
- ❑ **Memory Stick<sup>®</sup> Viewer:** Lets you watch digital photo (JPEG) and movie (MPEG1) files that are stored on Memory Stick media.
- ❑ **Component Video Inputs:** Offers the best video quality for DVD (480p, 480i), and digital set-top box (HD1080i, 720p) connections.
- ❑ **HD Detailer<sup>™</sup>:** Wideband video amplifier has a high bandwidth frequency rating, which allows it to send more video information to the screen, resulting in finer picture quality, especially for HD sources.
- ❑ **CineMotion<sup>™</sup>:** Reverse 3-2 pulldown processing provides optimal picture quality for film-based sources (media originally shot in 24 frames-per-second format).
- ❑ **Parental Control:** V-Chip technology allows parents to block unsuitable programming from younger viewers.
- ❑ **HDMI (High-Definition Multimedia Interface):** Provides an uncompressed, all-digital audio/video interface between this TV and any HDMI-equipped audio/video component, such as a set-top box, DVD player, and A/V receiver. HDMI supports enhanced, or high-definition video, plus two-channel digital audio.

# Setting Up the TV


## Overview

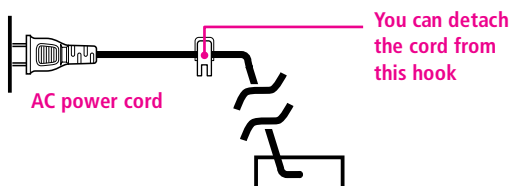
This chapter includes illustrated instructions for setting up your TV.

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## About the AC Power Cord

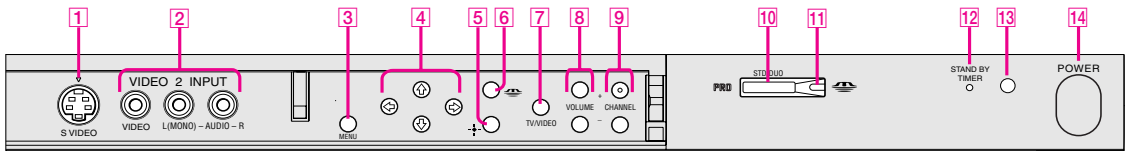
The AC power cord is attached to the rear of the TV with a hook. Use caution when removing the AC plug from its holder. Gently slide the plug upward to remove it from the hook. Once removed, the AC power plug should automatically disengage from its stored location.

 **Do not plug in the AC power cord until you have made all other connections.**



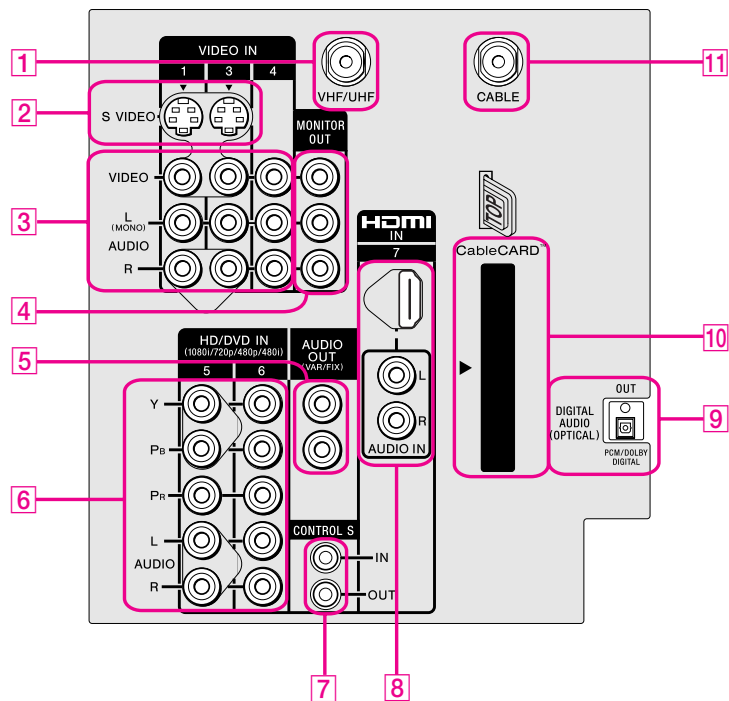
# TV Controls and Connectors

## Front Panel



Item	Description
1 S VIDEO VIDEO 2 INPUT	Connects to the S VIDEO OUT jack on your camcorder or other video equipment that has S VIDEO. Provides better picture quality than composite video (2).
2 VIDEO/L(MONO)-AUDIO-R VIDEO 2 INPUT	Connects to the composite A/V output jacks on your camcorder or other video equipment.
3 MENU	Press to display the Menu. Press again to exit from the Menu. For details, see “Using the Menus” on page 77.
4 ⬆ ⬇ ⬅ ➡	Press ⬆ ⬇ ⬅ ➡ to move the TV’s on-screen cursor.
5 +	Press to select an item in the TV’s Menu.
6	Press to display the Memory Stick Menu. For details, see “Using the Memory Stick Viewer” on page 61.
7 TV/VIDEO	Press repeatedly to cycle through the video equipment connected to the TV’s video inputs.
8 -VOLUME +	Press to adjust the volume.
9 -CHANNEL+	Press to scan through channels. To scan quickly through channels, press and hold down either CHANNEL button.
10 PRO STD/DUO	Memory Stick insertion slot. For details, see “Inserting and Removing a Memory Stick” on page 64.
11 Memory Stick LED	When lit, indicates that the Memory Stick is being read. (Do not remove the Memory Stick when the indicator is lit.)
12 TIMER/STAND BY LED	Blinks when the TV is turned on, then shuts off when the picture is displayed. If the LED blinks continuously, this may indicate the TV needs service (see “Contacting Sony” on page 97). When lit, indicates one of the timers is set. When the timer is set, this LED will remain lit even if the TV is turned off. For details, see page 92.
14 Infrared Receiver (IR)	Receives IR signals from the TV’s remote control.
15 POWER	Press to turn on and off the TV.

Rear Panel



Jack	Description
<b>1</b> VHF/UHF	RF input that connects to your VHF/UHF antenna or cable box.
<b>2</b> S VIDEO IN 1/3	Connects to the S VIDEO OUT jack of your VCR or other video equipment that has S VIDEO. S VIDEO provides better picture quality than either composite video ( <b>3</b> ) or VHF/UHF ( <b>1</b> ) connections.
<b>3</b> VIDEO IN 1/3/4 VIDEO/L(MONO) -AUDIO-R	Connect to the composite A/V output jacks on your VCR or other video component. A fourth component A/V input jack (VIDEO 2) is located on the front panel of the TV. This video connection provides better picture quality than the VHF/UHF ( <b>1</b> ) connection.
<b>4</b> MONITOR OUT	Lets you record the program you are watching to a VCR. When two VCRs are connected, you can use the TV as a monitor for tape-to-tape editing (not available with digital channels or with 480i, 480p, 720p, or 1080i when the input is set to VIDEO 5, 6, or 7).
<b>5</b> AUDIO OUT (VAR/FIX)	Connects to the left and right audio input jacks of your audio or video equipment. You can use these outputs to listen to your TV's audio through your stereo system.
<b>6</b> HD/DVD IN 5/6 (1080i/720p/480p/480i)	Connect to your DVD player's or digital set-top box's component video (Y, PB, PR) and audio (L/R) jacks. Component video provides better picture quality than <b>1</b> , <b>2</b> , or <b>3</b> ).
<b>7</b> CONTROL S IN/OUT	Allows the TV to receive (IN) and send (OUT) remote control signals to other Sony infrared-controlled audio or video equipment that has the CONTROL S function.
<b>8</b> HDMI (VIDEO 7 IN)	HDMI (High-Definition Multimedia Interface) provides an uncompressed, all-digital audio/video interface between this TV and any HDMI-equipped audio/video component, such as a set-top box, DVD player, and A/V receiver. HDMI supports enhanced, or high-definition video, plus two-channel digital audio.
<b>9</b> DIGITAL AUDIO OPTICAL OUTPUT (DOLBY DIGITAL PCM)	Connect to the optical audio input of an audio component that is Dolby* Digital and PCM compatible.
<b>10</b> CableCARD Slot	Provides cable subscribers with access to digitally encrypted cable channels — without the need for a set-top box — that will enable you to receive not only standard definition but also high definition television. The CableCARD, which is provided by your cable TV company, is inserted into this slot. After the service is activated with your cable TV company, the card replaces the need for a separate set-top box. Check with your cable TV company about CableCARD service details, limitations, pricing, and availability. For more information, see page 41.
<b>11</b> Cable	RF input that connects to your cable signal.

\* Dolby and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.

# Basic Connections: Connecting a Cable or Antenna

The way in which you will connect your TV varies, depending on how your home receives a signal (cable, cable box, antenna) and whether or not you plan to connect a VCR.

<i>If You Are Connecting</i>	<i>See Page</i>
<b>Cable or Antenna Only</b>	16
<input type="checkbox"/> No cable box or VCR	
<b>Cable and Antenna Only</b>	17
<input type="checkbox"/> No cable box or VCR	
<b>Cable Box and Cable Only</b>	18
<input type="checkbox"/> Cable box unscrambles only some channels (usually premium channels)	
<input type="checkbox"/> No VCR	
<b>Cable Box Only</b>	19
<input type="checkbox"/> Cable box unscrambles all channels	
<input type="checkbox"/> No VCR	

**If you are connecting a VCR**

- ☐ See the connections described on pages 22 and 24.

## About Using CableCARD

If you are planning to use a separate cable box for digital cable TV services, you may be able to receive programming using this TV with the CableCARD instead — except in the following circumstances:

- ☐ Your cable TV company does not provide CableCARD service in your viewing area.
- ☐ You want to access your cable company’s interactive or advanced features (such as video-on-demand or, in some cases, pay-per-view). At this time, these services require a bidirectional link, which are only available through the use of a separate set-top box. CableCARD is currently a unidirectional device only, and cannot provide these advanced services.

Check with your cable TV company for CableCARD service details, limitations, pricing, and availability, all of which are determined by your cable TV company — not Sony. For information on installing and activating CableCARD, see “Using CableCARD” on page 41.



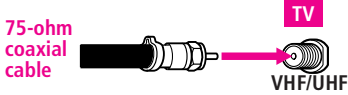
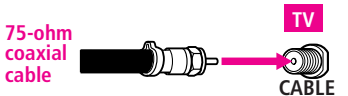
## Cable or Antenna Only

For best results, use one of the following connections if you are connecting a cable or an antenna and you:

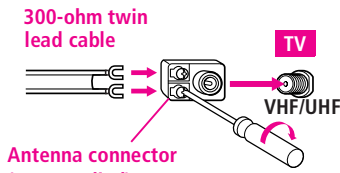
- ❑ Do not need a cable box to unscramble channels. (If you have a cable box, see pages 18-19.)
- ❑ Do not intend to connect a VCR. (If you have a VCR, see pages 22 and 24.)

The connection you choose depends on the cable type you have in your home, as described below.

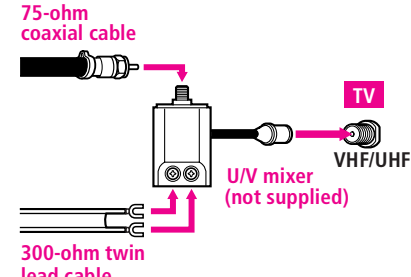
### 75-ohm coaxial cable (usually found in newer homes)

Cable Type	Connect As Shown
VHF Only or combined VHF/UHF	 <p>75-ohm coaxial cable</p> <p>TV</p> <p>VHF/UHF</p>
Cable	 <p>75-ohm coaxial cable</p> <p>TV</p> <p>CABLE</p>

### 300-ohm twin lead cable (usually found in older homes)

Cable Type	Connect As Shown
VHF Only or UHF Only or combined VHF/UHF	 <p>300-ohm twin lead cable</p> <p>TV</p> <p>VHF/UHF</p> <p>Antenna connector (not supplied)</p>


### 75-ohm coaxial and 300-ohm twin lead cable (found in some homes)

Cable Type	Connect As Shown
VHF and UHF	 <p>75-ohm coaxial cable</p> <p>TV</p> <p>VHF/UHF</p> <p>U/V mixer (not supplied)</p> <p>300-ohm twin lead cable</p>

Cable and Antenna  
Only

For best results, use this connection if you:

- Have a cable and an antenna.  
(This is convenient if you are using a separate rooftop antenna to receive additional channels that are not provided by your cable company.)
- Do not have a cable box or VCR. (If you have a cable box, see pages 18 to 19. If you have a VCR, see pages 22 and 24.)

Cable Type	Connect As Shown
Cable TV (CATV) and Antenna	

Notes on Using This Connection

To Do This ...	Do This ...
Switch the TV's input between the cable and antenna	Press <b>ANT</b> to switch back and forth between the TV's VHF/UHF and CABLE inputs.

## Cable Box and Cable Only

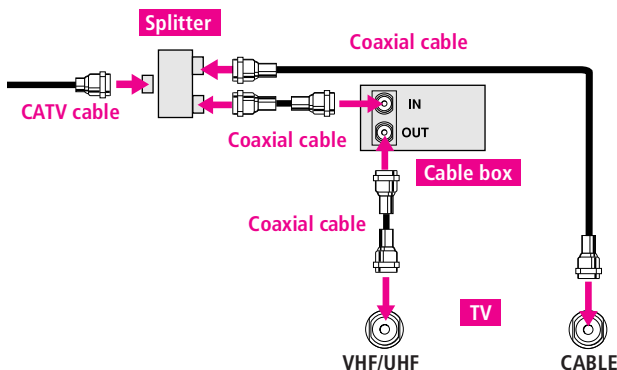
Before connecting a cable box, see "About Using CableCARD" on page 15.

### For best results, use this connection if:

- ❑ Your cable company scrambles some channels, such as premium channels (which requires you to use a cable box), but does not scramble all channels.
- ❑ You do not have a VCR. (If you have a VCR, see pages 22 and 24.)

### With this connection you can:

- ❑ Use the TV remote control to change channels coming through the cable box to the TV's VHF/UHF input jack. (You must first program the remote control for your specific cable box; see "Programming the Remote Control" on page 49.)
- ❑ Use the TV remote control to change channels coming directly into the TV's CABLE input. (The TV's tuner provides a better signal than the cable box.)



### Notes on Using This Connection

To Do This ...	Do This ...
Use the cable box	Tune the TV to the channel the cable box is set to (usually channel 3 or 4) and then use the cable box to switch channels.
Set up the TV remote control to operate the cable box	Program the remote control. See "Programming the Remote Control" on pages 49-50.
Activate the remote control to operate the cable box	Press <b>SAT/CABLE FUNCTION</b> .
Switch the TV's input between the cable box and cable	Press <b>ANT</b> to switch back and forth between the TV's VHF/UHF (scrambled channels) and CABLE (unscrambled) inputs.

# Cable Box Only

Before connecting a cable box, see "About Using CableCARD" on page 15.

## For best results, use this connection if:

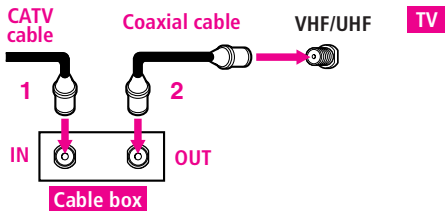
- ❑ Your cable company scrambles all channels, which requires you to use a cable box.
- ❑ You do not have a VCR. (If you have a VCR, see pages 22 and 24.)

## With this connection you can:

- ❑ Use the TV remote control to change channels coming through the cable box to the TV's VHF/UHF jack. (You must first program the remote control for your specific cable box.)

## To connect the cable box

- 1 Connect the CATV cable to the cable box's input jack.
- 2 Use a coaxial cable to connect the cable box's output jack to the TV's VHF/UHF jack.



- 3 Run Auto Program, as described in "Setting Up the Channel List" on page 43.

## Notes on Using This Connection

To Do This ...	Do This ...
Use the cable box	Tune the TV to the channel the cable box is set to (usually channel 3 or 4) and then use the cable box to switch channels.
Set up the TV remote control to operate the cable box	Program the remote control. See "Programming the Remote Control" on pages 49.
Activate the remote control to operate the cable box	Press <b>SAT/CABLE FUNCTION</b> .


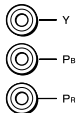



# Connecting Optional Equipment

Use the directions in this section to connect the following optional equipment:

<i>If You Are Connecting</i>	<i>See Page</i>
VCR and Cable	22
VCR and Cable Box	24
Two VCRs for Tape Editing	26
Satellite Receiver	28
Satellite Receiver and VCR	30
DVD Player with Component Video Connectors	32
DVD Player with S VIDEO and Audio Connectors	34
Camcorder	35
Audio Receiver	36
DVI-Equipped Device	37
HDMI-Equipped Device	38

## Making Video Connections

Your TV includes several types of video inputs. When connecting your TV, use the inputs that are available on your components that provide the best video performance, as described below.

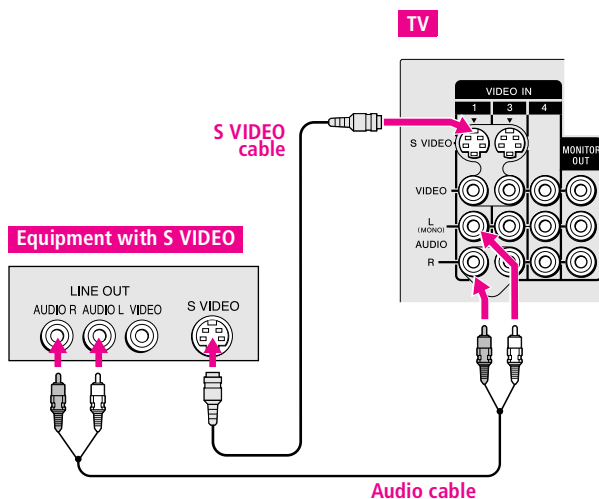
Best Video Performance	
	HDMI (High-Definition Multimedia Interface)
	Component video
	S VIDEO
	Composite video
	RF/Coaxial
Good Video Performance	

## About Using S VIDEO



If the optional equipment you are connecting has an S VIDEO jack (shown at left), you can use an S VIDEO cable for improved picture quality (compared to an A/V cable). Because S VIDEO carries only the video signal, you also need to connect audio cables for sound, as shown below.

### Example of an S VIDEO Connection



Cables are often color-coded to connectors. Connect red to red, white to white, etc.

# VCR and Cable



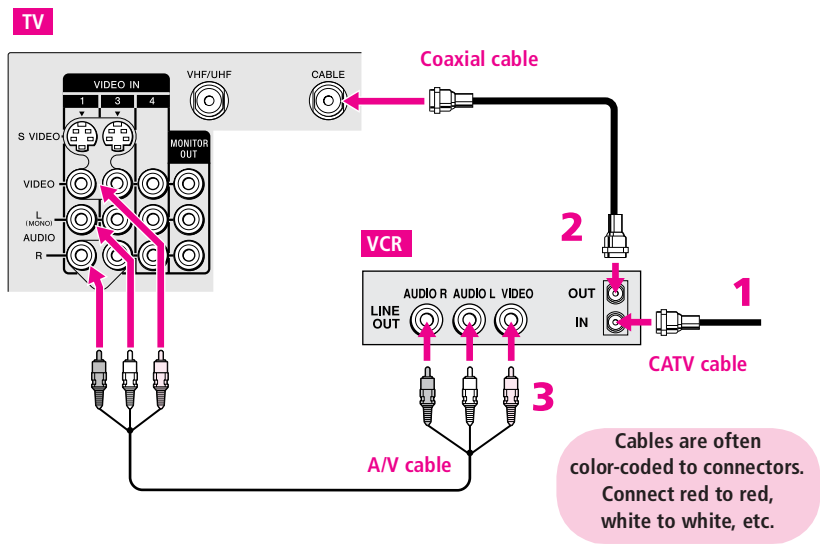
Using  
S VIDEO jacks?  
See page 21.

For best results, use this connection if:

- ❑ Your cable company does not require you to use a cable box.

## To connect the VCR and cable

- 1 Connect the CATV cable to the VCR's VHF/UHF input jack.
- 2 Use a coaxial cable to connect the VCR's VHF/UHF output jack to the TV's CABLE jack.
- 3 Use an A/V cable to connect the VCR's A/V output jacks to the TV's A/V input jacks.
- 4 Run Auto Program, as described in "Setting Up the Channel List" on page 43.



Notes on Using This Connection

To Do This ...	Do This ...
Watch the VCR	Press <b>TV/VIDEO</b> repeatedly to select the VCR input (VIDEO 1 in the illustration).
Watch cable channels	Press <b>TV/VIDEO</b> repeatedly to select the cable input (CABLE in the illustration).
Set up the TV remote control to operate the VCR	If you have a non-Sony VCR, you must program the remote control. See “Programming the Remote Control” on pages 49-50.
Activate the TV remote control to operate the VCR	Press <b>VCR/DVD FUNCTION</b> .
Control VCR functions with the TV remote control	See “Operating a VCR” on page 59.
Label video inputs to easily identify equipment connected to the TV	See the instructions for setting up Video Labels on page 90.



## VCR and Cable Box

Before connecting a cable box, see "About Using CableCARD" on page 15.

### For best results, use this connection if:

- ❑ Your cable company scrambles some channels, such as premium channels (which requires you to use a cable box), but does not scramble all channels.

### With this connection you can:

- ❑ Use the TV remote control to change channels coming through the cable box. (You must first program the remote control for your specific cable box; see "Programming the Remote Control" on page 49.)
- ❑ Use the TV remote control to change channels coming directly into the TV's CABLE jack. (The TV's tuner provides a better signal than the cable box.)
- ❑ Record channels coming through the cable box and channels coming directly into the TV.

### To connect a VCR and cable box, you need:

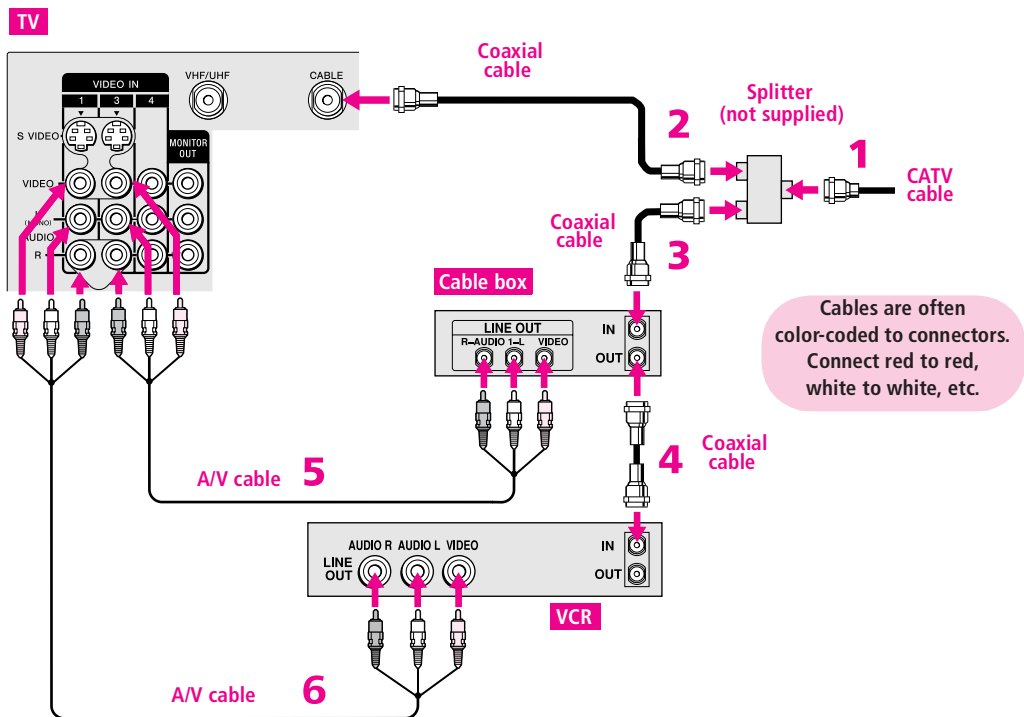
- ❑ A splitter, which is a small, inexpensive device that you can purchase at your local electronics store.
- ❑ Four coaxial cables.
- ❑ Two A/V cables or two S VIDEO cable with audio cables.

### To connect the VCR and cable box

- 1** Connect the CATV cable to the single (input) jack of the splitter.
- 2** Use a coaxial cable to connect one of the splitter's two output jacks to the TV's CABLE jack.
- 3** Use a coaxial cable to connect the splitter's other output jack to the cable box's input jack.
- 4** Use a coaxial cable to connect the cable box's output jack to the VCR's RF input jack.
- 5** Use an A/V cable to connect the cable box's A/V output jacks to the TV's A/V input jacks.
- 6** Use an A/V cable to connect the VCR's A/V output jacks to the TV's A/V input jacks.
- 7** Run Auto Program, as described in "Setting Up the Channel List" on page 43.



Using  
S VIDEO jacks?  
See page 21.



### Notes on Using This Connection

To Do This ...	Do This ...
Watch cable (unscrambled) channels	Press <b>TV/VIDEO</b> repeatedly to select the cable input (CABLE in the illustration).
Watch cable box (scrambled) channels	Press <b>TV/VIDEO</b> repeatedly to select the cable box input (VIDEO 3 in the illustration). Use the cable box to change channels.
Watch the VCR	Press <b>TV/VIDEO</b> repeatedly to select the VCR input (VIDEO 1 in the illustration).
Set up the TV remote control to operate the cable box or VCR	If you have a non-Sony VCR, you must program the remote control. See "Programming the Remote Control" on pages 49-50.
Activate the remote control to operate the cable box or VCR	For the cable box, press <b>SAT/CABLE FUNCTION</b> . For the VCR, press <b>VCR/DVD FUNCTION</b> .
Control specific cable box and VCR functions with the TV remote control	See "Operating a Cable Box" on page 60 and "Operating a VCR" on page 59.
Label video inputs to easily identify equipment connected to the TV	See the instructions for setting up Video Labels on page 85.

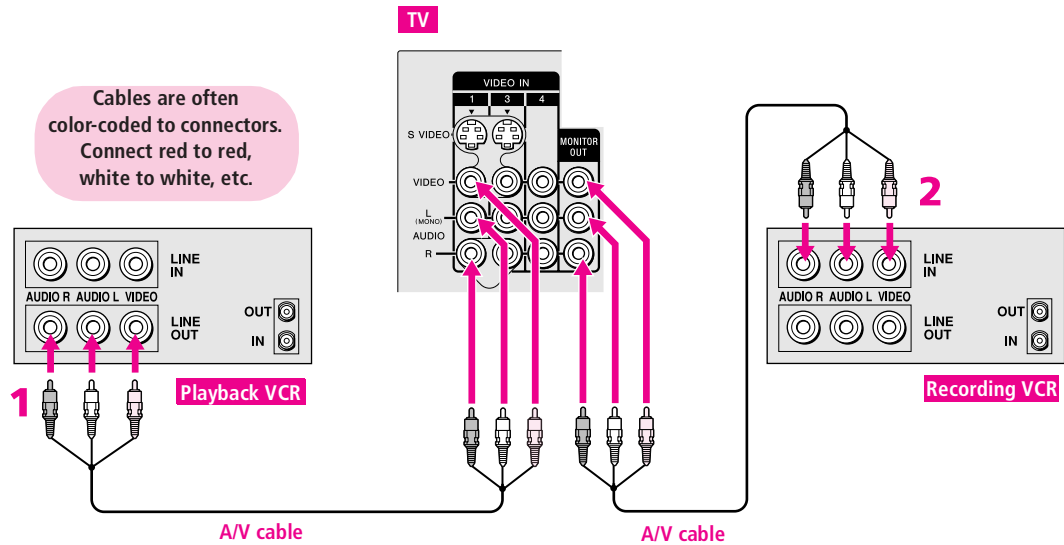
# Two VCRs for Tape Editing

Using S VIDEO jacks? See page 21.

Connecting two VCRs lets you record from one VCR to the other. By connecting them as shown below, you can view (monitor) what is being recorded.

## To connect two VCRs for tape editing

- 1 Use an A/V cable to connect the playback VCR's A/V output jacks to the TV's A/V input jacks.
- 2 Use an A/V cable to connect the recording VCR's A/V input jacks to the TV's MONITOR OUT jacks.



Notes on Using This Connection

To Do This ...	Do This ...
View (monitor) what is being recorded	Press <b>TV/VIDEO</b> repeatedly to select the VCR input (VIDEO 1 in the illustration above).
Set up the TV remote control to operate the VCR(s)	If you have a non-Sony VCR, you must program the remote control. See “Programming the Remote Control” on pages 49-50.
Activate the TV remote control to operate the VCR(s)	Press <b>VCR/DVD FUNCTION</b> .
Control VCR functions with the TV remote control	See “Operating a VCR” on page 59.
Label video inputs to easily identify equipment connected to the TV	See the instructions for setting up Video Labels on page 90.

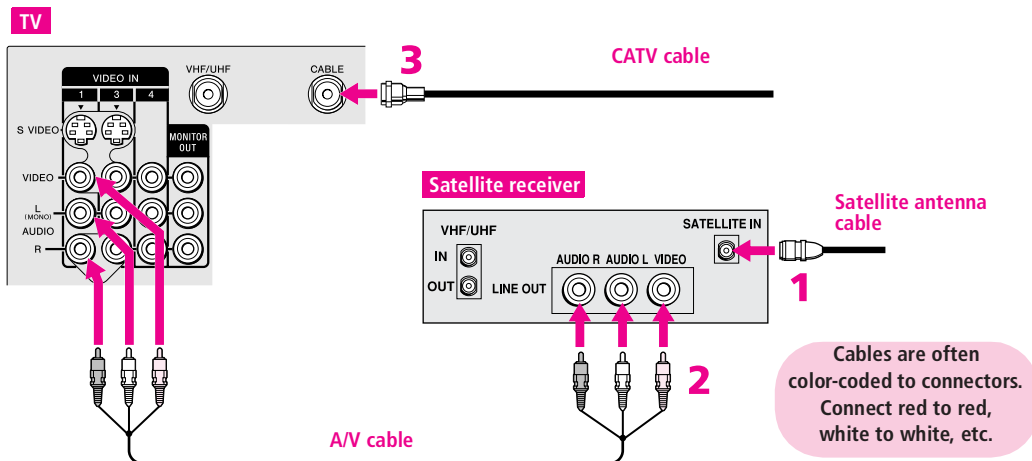
## Satellite Receiver



Using  
S VIDEO jacks?  
See page 21.

### To connect a satellite receiver

- 1 Connect the satellite antenna cable to the satellite receiver's satellite input jack.
- 2 Use an A/V cable to connect the satellite receiver's A/V output jacks to the TV's A/V input jacks.
- 3 Connect a CATV cable from your cable or antenna to the TV's CABLE jack.
- 4 Run Auto Program, as described in "Setting Up the Channel List" on page 43.



Notes on Using This Connection

To Do This ...	Do This ...
Watch the satellite receiver	Press <b>TV/VIDEO</b> repeatedly to select the satellite receiver input (VIDEO 1 in the illustration).
Set up the TV remote control to operate the satellite receiver	If you have a non-Sony satellite receiver, you must program the remote control. See "Programming the Remote Control" on pages 49-50.
Activate the TV remote control to operate the satellite receiver	Press <b>SAT/CABLE FUNCTION</b> .
Control satellite receiver functions with the TV remote control	See "Operating a Satellite Receiver" on page 59.
Label video inputs to easily identify equipment connected to the TV	See the instructions for setting up Video Labels on page 90.

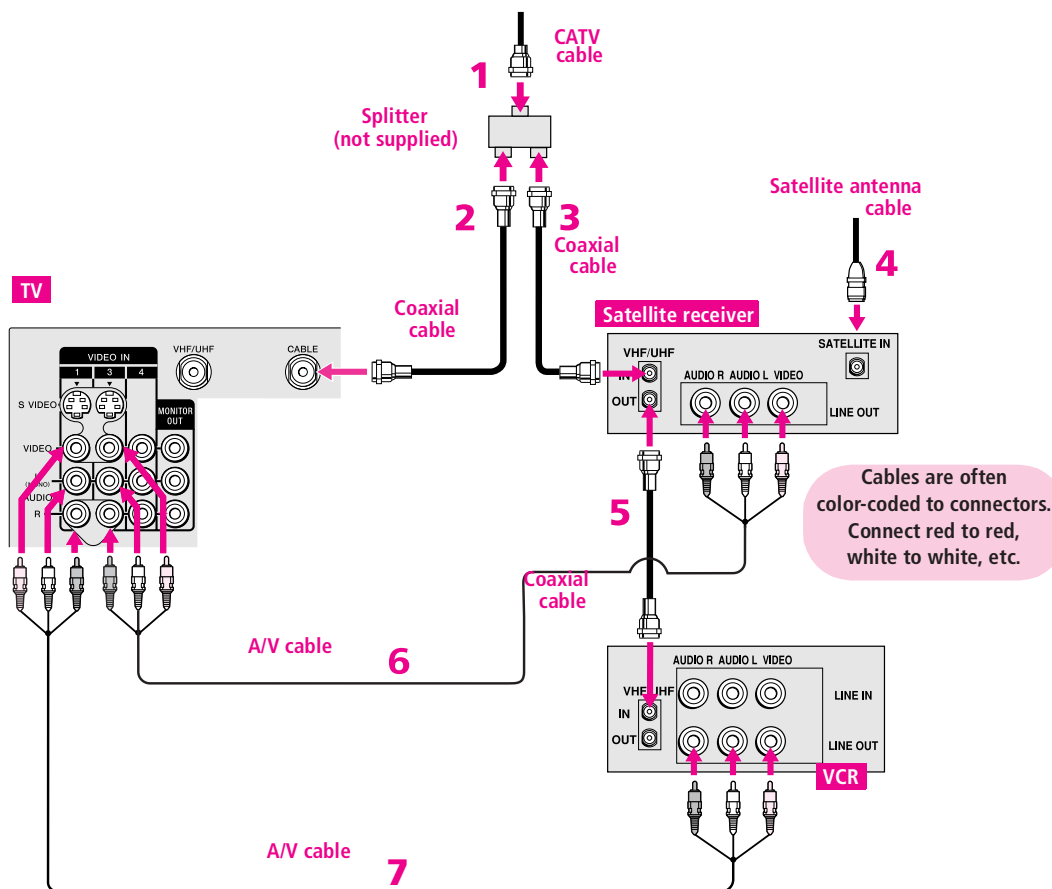
## Satellite Receiver and VCR



Using  
S VIDEO jacks?  
See page 21.

### To connect a satellite receiver and VCR

- 1 Connect the CATV cable to the single (input) jack of the splitter.
- 2 Use a coaxial cable to connect one of the splitter's two output jacks to the TV's CABLE jack.
- 3 Use a coaxial cable to connect the splitter's other output jack to the satellite receiver's VHF/UHF input jack.
- 4 Connect the satellite antenna cable to the satellite receiver's satellite input jack.
- 5 Use a coaxial cable to connect the satellite receiver's VHF/UHF output jack to the VCR's VHF/UHF input jack.
- 6 Use an A/V cable to connect the satellite receiver's A/V output jacks to the TV's A/V input jacks.
- 7 Use an A/V cable to connect the VCR's A/V output jacks to the TV's A/V input jacks.
- 8 Run Auto Program, as described in "Setting Up the Channel List" on page 43.



Notes on Using This Connection

To Do This ...	Do This ...
Watch the satellite receiver	Press <b>TV/VIDEO</b> repeatedly to select the VCR input (VIDEO 3 in the illustration).
Watch the VCR	Press <b>TV/VIDEO</b> repeatedly to select the input to which the VCR is connected (VIDEO 1 in the illustration).
Set up the TV remote control to operate the satellite receiver or VCR	If you have a non-Sony VCR or satellite receiver, you must program the remote control. See “Programming the Remote Control” on pages 49-50.
Activate the TV remote control to operate the satellite receiver or VCR	For the satellite receiver, press <b>SAT/CABLE FUNCTION</b> . For the VCR, press <b>VCR/DVD FUNCTION</b> .
Control satellite receiver and VCR functions with the TV remote control	See “Operating a Satellite Receiver” on page 59 and “Operating a VCR” on page 59.
Label video inputs to easily identify equipment connected to the TV	See the instructions for setting up Video Labels on page 90.




# DVD Player with Component Video Connectors

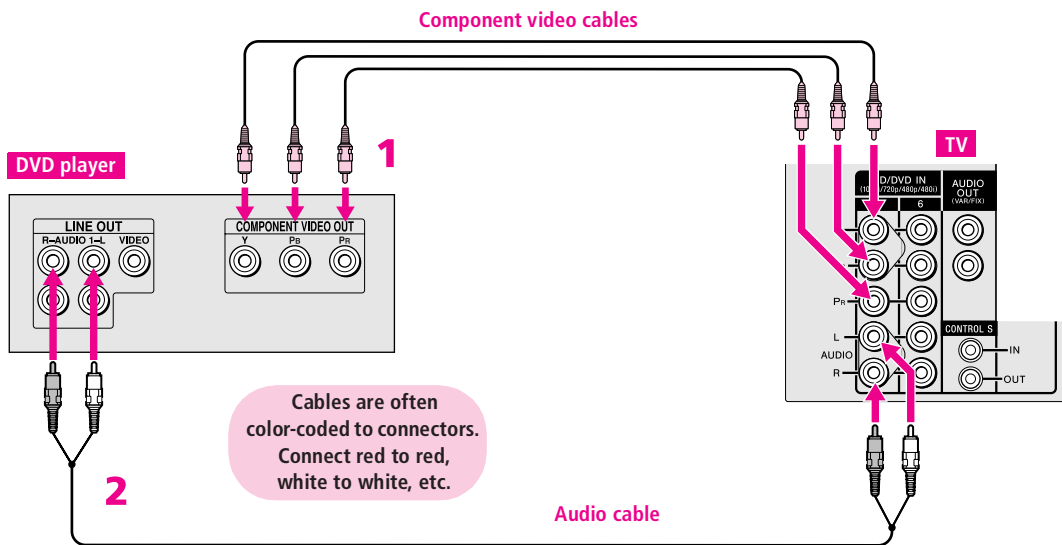
For best results, use this connection if your DVD player has component video (Y, P<sub>B</sub>, P<sub>R</sub>) jacks.

## To connect a DVD player with component video connectors

- 1 Use three separate component video cables to connect the DVD player's Y, P<sub>B</sub> and P<sub>R</sub> jacks to the Y, P<sub>B</sub> and P<sub>R</sub> jacks (VIDEO 5) on the TV.


 The Y, P<sub>B</sub> and P<sub>R</sub> jacks on your DVD player are sometimes labeled Y, C<sub>B</sub> and C<sub>R</sub>, or Y, B-Y and R-Y. If so, connect the cables to like colors.

- 2 Use an audio cable to connect the DVD player's audio output jacks to the TV's VIDEO 5 audio input jacks.



Notes on Using This Connection

To Do This ...	Do This ...
Watch the DVD player	Press <b>TV/VIDEO</b> repeatedly to select the DVD input (VIDEO 5 in the illustration).
Set up the TV remote control to operate the DVD player	If you have a non-Sony DVD player, you must program the remote control. See "Programming the Remote Control" on pages 49-50.
Activate the TV remote control to operate the DVD player	Press <b>VCR/DVD FUNCTION</b> .
Control DVD functions with the TV remote control	See "Operating a DVD Player" on page 60.
Label video inputs to easily identify equipment connected to the TV	See the instructions for setting up Video Labels on page 90.

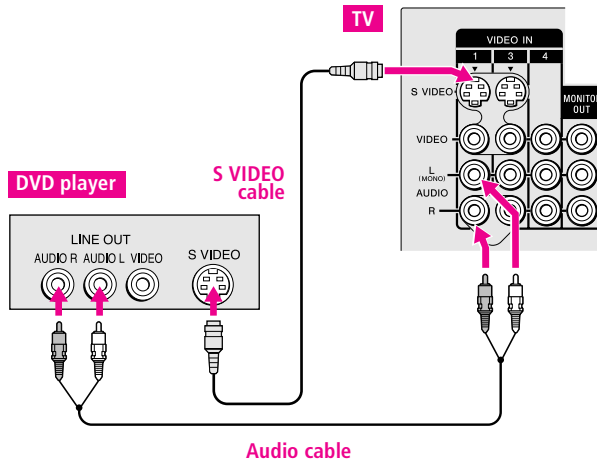
 You cannot record the signal from any equipment connected into the Y, PB, PR jacks.

## DVD Player with S VIDEO and Audio Connectors

Use this connection if your DVD player does not have component video (Y, PB, PR) jacks.

### To connect a DVD player with A/V connectors

- 1 Use an audio cable to connect the DVD player's audio output jacks to the TV's audio input jacks.
- 2 Use an S VIDEO cable to connect the DVD player's S VIDEO jack to the TV's S VIDEO jack.



Cables are often color-coded to connectors. Connect red to red, white to white, etc.

### Notes on Using This Connection

To Do This ...	Do This ...
Watch the DVD player	Press <b>TV/VIDEO</b> repeatedly to select the DVD input (VIDEO 1 in the illustration).
Set up the TV remote control to operate the DVD player	If you have a non-Sony DVD player, you must program the remote control. See "Programming the Remote Control" on pages 49-50.
Activate the TV remote control to operate the DVD player	Press <b>VCR/DVD FUNCTION</b> .
Control DVD functions with the TV remote control	See "Operating a DVD Player" on page 60.
Label video inputs to easily identify equipment connected to the TV	See the instructions for setting up Video Labels on page 90.

Camcorder



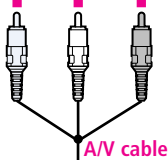
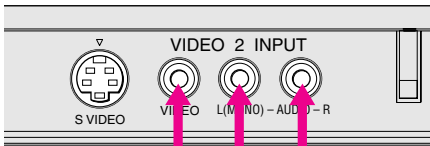
Using  
S VIDEO jacks?  
See page 21.

For easy connection of a camcorder, the TV has front A/V input jacks. If you prefer, however, you can connect the camcorder to the TV's rear A/V input jacks.

To connect a camcorder

- 1
- Use A/V cables to connect the camcorder's A/V output jacks to the TV's A/V input jacks.

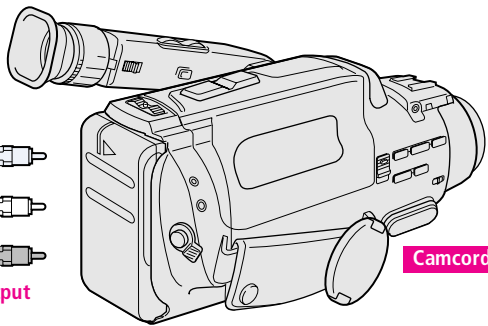
TV



A/V cable

Cables are often color-coded to connectors. Connect red to red, white to white, etc.

To A/V output



Camcorder

If you have a mono camcorder, connect its audio output jack to the TV's L MONO audio jack.

Notes on Using This Connection

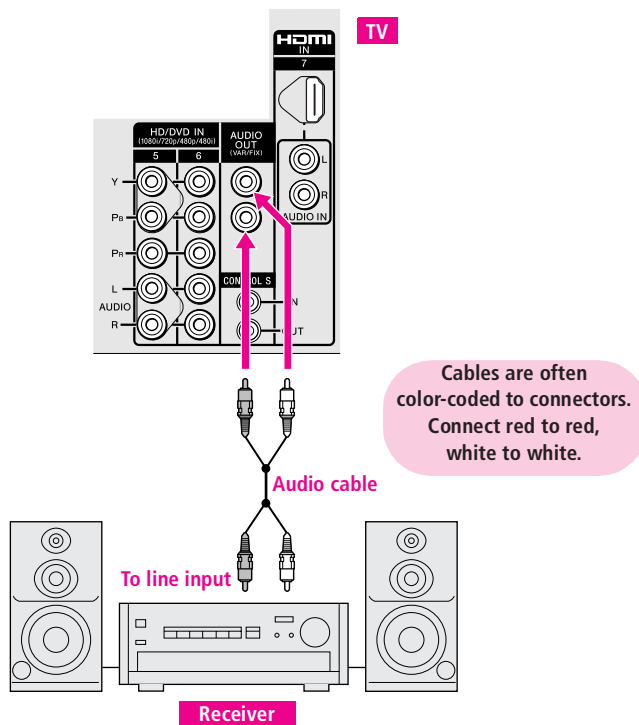
To Do This ...	Do This ...
Watch the camcorder	Press <b>TV/VIDEO</b> repeatedly to select the camcorder input (VIDEO 2 in the illustration).
Label video inputs to easily identify equipment connected to the TV	See the instructions for setting up Video Labels on page 90.

## Audio Receiver

For improved sound quality, you may want to play the TV's audio through your stereo system.

### To connect an audio system

- 1 Use an audio cable to connect the TV's audio output jacks to the audio receiver's line input jacks.



- 2 Using the TV's Audio Menu, set the **Speaker** option to **Off**. Then set the **Audio Out** option to **Fixed** or **Variable**, depending on how you want to control the volume. For details, see "Using the Audio Menu" on page 80.
- 3 Turn on the audio receiver, and then set the receiver's line input to the jack into which you connected the TV.

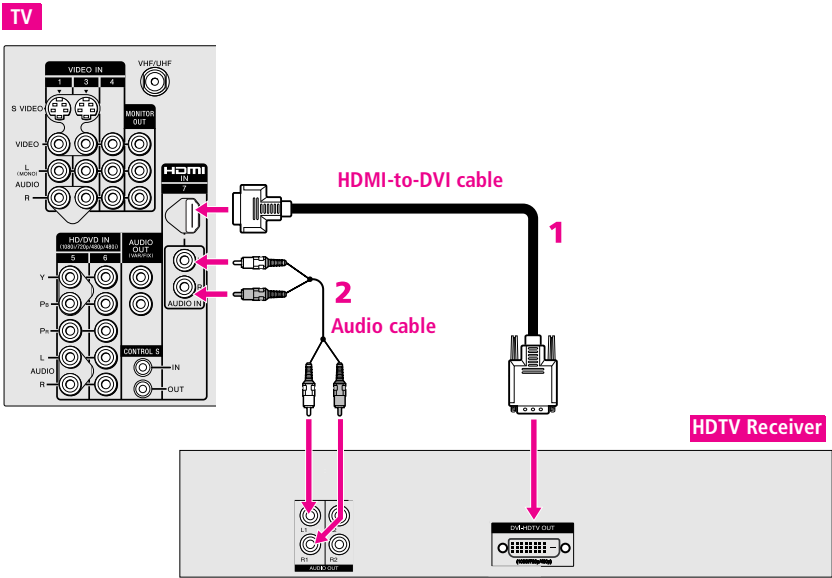
DVI-Equipped Device

If you have a device, such as an HDTV receiver, that has DVI (Digital Video Interface) output, use the following connection.

To connect a device that has DVI OUT:

- 1 Use an HDMI-to-DVI cable to connect the device's DVI OUT jack to the TV's HDMI IN jack.
- 2 Use an audio cable to connect the device's audio output jacks to the TV's HDMI analog audio input jacks.

You can purchase HDMI cables (or cable adapters) at your local electronics store.



Note on Using This Connection


To Do This ...	Do This ...
Watch the DVI device	Press <b>TV/VIDEO</b> repeatedly to select the VIDEO 7 input.
Label video inputs to easily identify equipment connected to the TV	See the instructions for setting up Video Labels on page 90.

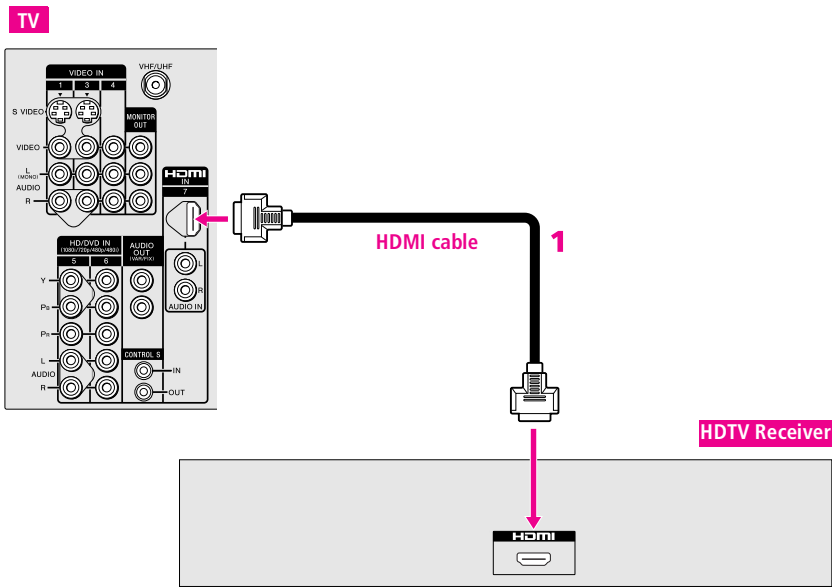
HDMI-Equipped Device

If you have a device, such as an HDTV receiver, that has a High-Definition Multimedia Interface (HDMI), use the following connection.

To connect a device that has HDMI OUT:

- 1 Use the HDMI cable that came with your device to connect the device's HDMI OUT jack to the TV's HDMI IN jack.

 HDMI cables transmit both audio and video signals. (Separate audio cables are not necessary.) You can purchase HDMI cables at your local electronics store.



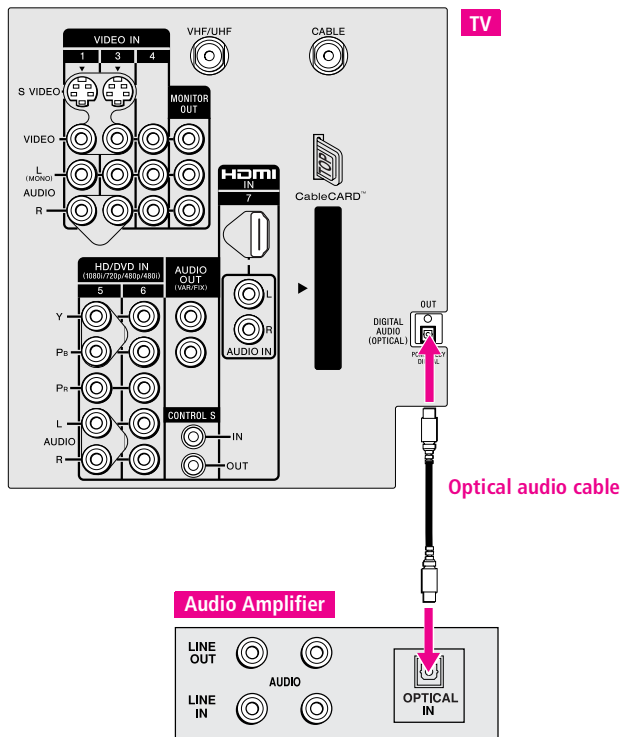
Note on Using This Connection


To Do This ...	Do This ...
Watch the HDMI device	Press <b>TV/VIDEO</b> repeatedly to select the VIDEO 7 input.
Label video inputs to easily identify equipment connected to the TV	See the instructions for setting up Video Labels on page 90.

## Connecting a Device with an Optical IN Connector

You can use the TV's DIGITAL AUDIO OPTICAL output jack to connect an audio device that is Dolby Digital and PCM compatible, such as an audio amplifier.

- Using an optical cable, connect the TV's DIGITAL AUDIO OPTICAL output jack to the device's audio optical input jack.



 Because all equipment does not output digital audio, you should also connect the TV's analog audio output jacks to the amplifier's analog audio input jacks, as described on page 36.

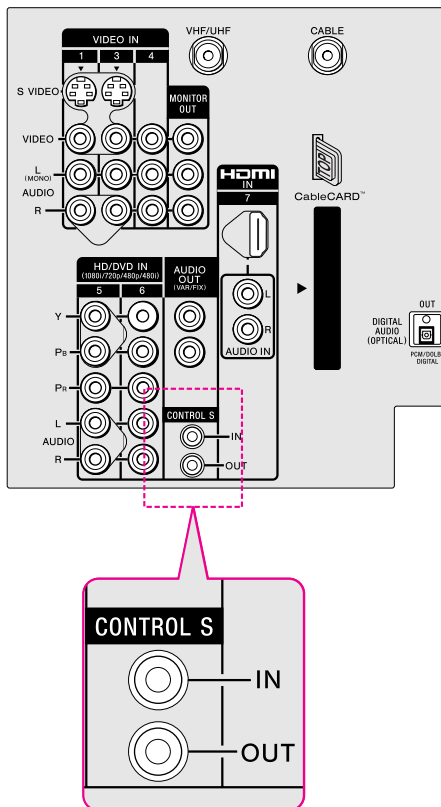


## Using the **CONTROL S** Feature

CONTROL S allows you to control your system and other Sony equipment with one remote control. In addition to allowing you to control multiple devices with one remote control, the CONTROL S feature allows you to always point your remote control at your TV, instead of having to point it at the other equipment, which might be hidden or out of direct line of sight.

Use CONTROL S IN to send signals to the TV.

Use CONTROL S OUT to send signals to connected equipment.



## Using CableCARD

CableCARD provides cable subscribers with access to digitally encrypted cable channels — without the need for a set-top box — that will enable you to receive not only standard definition but also high definition television. The CableCARD, which is provided by your cable TV company, is inserted into the TV's rear panel CableCARD slot. After the service is activated with your cable TV company, the card replaces the need for a separate set-top box.

### About Using CableCARD

If you are planning to use a separate cable box for digital cable TV services, you may be able to receive programming using this TV with the CableCARD instead — except in the following circumstances:

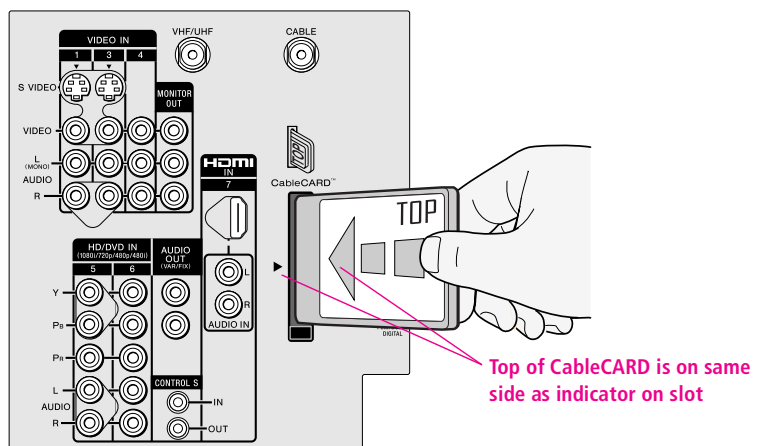
- ❑ Your cable TV company does not provide CableCARD service in your viewing area.
- ❑ You want to access your cable company's interactive or advanced features (such as video-on-demand or, in some cases, pay-per-view). At this time, these services require a bidirectional link, which are only available through the use of a separate set-top box. CableCARD is currently a unidirectional device only, and cannot provide these advanced services.

Check with your cable TV company for CableCARD service details, limitations, pricing, and availability, all of which are determined by your cable TV company — not Sony.


### Activating CableCARD Service

Before you can use CableCARD service, you need to insert the CableCARD (supplied by your cable TV company) and activate the service, as described below:

- 1 Turn off the TV.
- 2 Insert the CableCARD into the TV's CableCARD slot.



**!** CAUTION: Inserting the CableCARD incorrectly may result in permanent damage to the card and the TV.


 You can also access information about your CableCARD in the Applications Menu (see page 93).

- 3 Gently push the card into the slot until it locks into place.
- 4 Turn on the TV. After 1-2 minutes, the CableCARD setup screen is displayed. This screen includes information your cable TV company will request before they can activate your service.
- 5 Follow the displayed instructions: Phone your cable company. A representative will guide you through the activation process.
- 6 After your CableCARD is activated, your cable TV company will download the service information, including the channel list, to the CableCARD.

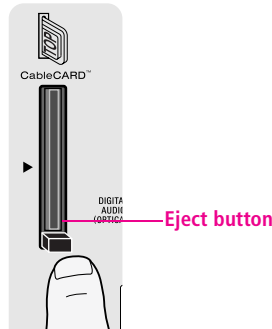
After the CableCARD has acquired channels from your cable TV company, the TV tunes to the lowest available channel.

## Removing the CableCARD

In the event you want to cancel your service, contact your cable TV company.

 **Once the CableCARD is removed, your TV will no longer decrypt digital cable TV programming services that require CableCARD.**

- 1 Turn off the TV.
- 2 Push the eject button on the TV's CableCARD slot to release the card.





- 3 Pull the CableCARD straight out of the slot to remove it. To install a different CableCARD, follow the instructions in "Activating CableCARD Service" on page 41.


## Setting Up the Channel List

After you finish connecting the TV, you need to run the Initial Setup feature, which automatically creates a list of available analog and digital channels and lets you correct tilt and vertical correction settings. The Initial Setup screens appear when you turn on your TV for the first time after hooking it up.









### Using Initial Setup

 For more details on using Tilt Correction and Vertical Correction, see pages 89-90.

 To exit the Tilt Correction and Vertical Correction screens, press the **MENU** button.

 If you are using a CableCARD, Auto Program is disabled for the CABLE input.

#### To run Initial Setup

- 1 Press **POWER** to turn on the TV.  
The Initial Setup screen appears.  
Using the remote control, move the highlight to the desired language, then press  to select that language. The Tilt Correction screen appears.
  - 2 Press   to correct any tilt of the picture. You can choose a correction between +7 and -7. When finished, press .
  - 3 **KD-30/34XS955 Only** The Vertical Correction screen appears. Press   to make a vertical correction to the picture. You can choose a correction between +5 and -5. When finished, press .
  - 4 The next screen instructs you to connect your cable/antenna. Check that you've connected your signal source correctly.  
To start Auto Program, highlight **Yes** and then press .
- Auto Program automatically creates a list of receivable analog and digital channels. Auto Program may take 50 minutes or more to complete. A progress bar is displayed while the channel list is being created.
- When Auto Program is finished, the lowest numbered channel is displayed.

#### To run Auto Program again at a later time

- ☐ Use the Auto Program feature as described on page 84.

#### To add individual digital channels

Use the Digital Channel feature as described on page 84.

#### To reset the TV to factory settings

- 1 Press **POWER** to turn on the TV.
- 2 Hold down **RESET** on the remote control.
- 3 Press **TV POWER** on the TV. (The TV will turn itself off, then back on.)
- 4 Release **RESET**.



# Using the Remote Control

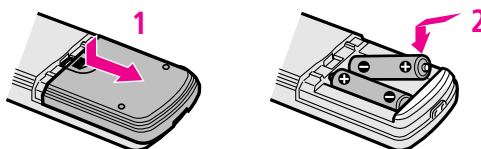
## Overview

This chapter describes how to set up, program, and use the TV's remote control.

Topic	Page
Inserting Batteries	45
Button Descriptions	46
Programming the Remote Control	49

## Inserting Batteries

- 1 Remove the battery cover from the remote control.
- 2 Insert two size AA (R6) batteries (supplied) by matching the **+** and **-** terminals on the batteries to the diagram inside the battery compartment.
- 3 Replace the battery cover.



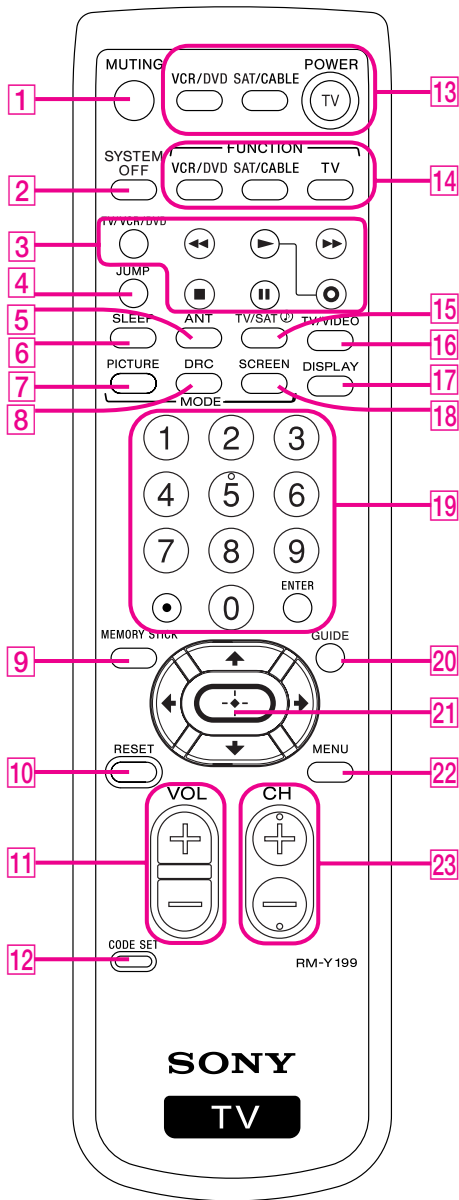
Remove the batteries to avoid damage from possible battery leakage whenever you anticipate that the remote control will not be used for an extended period.

Handle the remote control with care.

Avoid dropping it, getting it wet, placing it in direct sunlight, near a heater, or where the humidity is high.



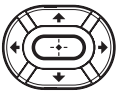


Button Descriptions

Remote Control



Button	Description
<b>1</b> <b>MUTING</b>	Press to mute the sound. Press again or press <b>VOL+</b> to restore the sound.
<b>2</b> <b>SYSTEM OFF</b>	Press to turn off all Sony brand audio/video equipment at once. (May not function with older Sony equipment. Does not function with DVD/VCR combination unit.)
<b>3</b> <b>TV/VCR/DVD</b>	Press to change the VHF/UHF output of the VCR (or DVD/VCR combination unit).
<b>Transport Buttons</b>	◀◀ Rewind
	▶ Play
	● Record (press together with ▶)
	■ Stop
	▶▶ Fast forward
	⏸ Pause
<b>4</b> <b>JUMP</b>	Press to jump back and forth between two channels. The TV alternates between the current channel and the last channel that was selected.
<b>5</b> <b>ANT</b>	Press to switch between the sources connected to the TV's VHF/UHF and CABLE inputs.
<b>6</b> <b>SLEEP</b>	Press repeatedly until the TV displays the time in minutes (15, 30, 45, 60, or 90) that you want the TV to remain on before shutting off automatically. To cancel press until <b>Sleep Off</b> appears. While the Sleep feature is set, press once to display the remaining time.
<b>7</b> <b>PICTURE MODE</b>	Press repeatedly to cycle through the available video picture modes: <b>Vivid</b> , <b>Standard</b> , <b>Movie</b> , <b>Pro</b> . Also available in the Video Menu. For details, see "Selecting Video Options" on page 78.
<b>8</b> <b>DRC MODE</b>	Press repeatedly to cycle through the available Digital Reality Creation modes: <b>Interlaced</b> , <b>Progressive</b> , <b>CineMotion</b> . Also available in the Video Menu. For details, see "Selecting Video Options" on pages 78-79.
<b>9</b> <b>MEMORY STICK</b>	Press to display the Memory Stick Menu. For details, see "Using the Memory Stick Viewer" on page 61. Also available in the Applications Menu (page 92).
<b>10</b> <b>RESET</b>	Press to reset the settings to the factory defaults. See pages 43, 79, and 81. Also used to clear Favorite Channels (see page 58).
<b>11</b> <b>VOL +/-</b>	Press to adjust the volume.
<b>12</b> <b>CODE SET</b>	Press to program the remote control to operate non-Sony video equipment. For details, see "Programming the Remote Control" on page 49.
<b>13</b> <b>POWER Buttons</b>	<b>VCR/DVD:</b> Press to turn on and off the VCR or DVD player.
	<b>SAT/CABLE:</b> Press to turn on and off the satellite receiver or cable box.
	<b>TV:</b> Press to turn on and off the TV.
<b>14</b> <b>FUNCTION Buttons</b>	The indicator lights up momentarily when pressed to show which equipment the remote control is operating:
	<b>VCR/DVD:</b> Press to have the remote control operate the VCR or DVD player.
	<b>SAT/CABLE:</b> Press to have the remote control operate the satellite receiver or cable box.
	<b>TV:</b> Press to have the remote control operate the TV.
<b>15</b> <b>TV/SAT</b>	When the remote control is set to operate the satellite receiver, press to switch between the satellite receiver's TV and SAT (satellite) inputs.
Ⓟ	When the remote control is set to operate the TV, press repeatedly to step through the Audio Effect options. Also available in the Audio Menu. For details, see page 80.




Button	Description
<b>16</b> TV/VIDEO	Press repeatedly to cycle through the TV's video inputs.
<b>17</b> DISPLAY	Press once to display the current channel number, current time, and channel label (if set) and other information. Press again to turn Display off.
<b>18</b> SCREEN MODE	Press to toggle between the Screen Mode options. For details on using Screen Mode, see pages 55-57. Also available in the Screen Menu (pages 82-83).
<b>19</b> 0 - 9 ENTER 	Press <b>0 - 9</b> to select a channel; the channel changes after 3 seconds. Press <b>ENTER</b> to change channels immediately. Use the  button with <b>0-9</b> and <b>ENTER</b> buttons to select digital channels (for example, 2.1). For details on selecting digital channels, see page 52.
<b>20</b> GUIDE	Press to display the program guide of your satellite program provider.
<b>21</b> 	Press <b>↑ ↓ ← →</b> to move the on-screen cursor. To select an item, press  . When no menus are displayed, pressing  displays the Favorite Channels screen. (For more information about Favorite Channels, see page 58.)
<b>22</b> MENU	Press to display the Menu. Press again to exit from the Menu. For details, see "Using the Menus" on page 77.
<b>23</b> CH +/-	Press to scan through channels. To scan quickly through channels, press and hold down either <b>CH</b> button.

## Programming the Remote Control

If you have video equipment other than Sony brand (or if you have a Sony DVD/VCR combination unit) that you want to control with the TV's remote control, use the following procedure to program the remote control.

 **The equipment must have infrared (IR) remote capability in order to be used with the remote control.**

- 1 Turn to the list of "Manufacturer's Codes" on page 50, and find the three-digit code number for the manufacturer of your equipment. (If more than one code number is listed, use the number listed first.)
- 2 Press **CODE SET**.
- 3 Press the **VCR/DVD FUNCTION** or **SAT/CABLE FUNCTION** button.
- 4 Using the **0-9** buttons, enter the three-digit manufacturer's code number.
- 5 Press the **ENTER** button.

 **You must do step 5 within 10 seconds of step 4, or you must redo steps 2 through 5.**

- 6 To check if the code number works, aim the TV's remote control at the equipment and press the **POWER** button that corresponds with that equipment. If it responds, you are done. If not, try using another code listed for that manufacturer.

### Notes

- ❑ If more than one code number is listed, try entering them one by one until you come to the correct code for your equipment.
- ❑ If you enter a new code number, the code number you previously entered at that setting is erased.
- ❑ In some cases, you may not be able to operate your equipment with the supplied remote control. In such cases, use the equipment's own remote control.
- ❑ Whenever you remove the batteries to replace them, the code numbers may revert to the factory setting and must be reprogrammed.

## Manufacturer's Codes

### VCRs

Manufacturer	Code
Sony	301, 302, 303
Admiral (M. Ward)	327
Aiwa	338, 344
Audio Dynamic	314, 337
Broksonic	319, 317
Canon	309, 308
Citizen	332
Craig	302, 332
Criterion	315
Curtis Mathes	304, 338, 309
Daewoo	341, 312, 309
DBX	314, 336, 337
Dimensia	304
Emerson	319, 320, 316, 317, 318, 341
Fisher	330, 335
Funai	338
General Electric	329, 304, 309
Go Video	322, 339, 340
Goldstar	332
Hitachi	306, 304, 305, 338
Instant Replay	309, 308
JC Penney	309, 305, 304, 330, 314, 336, 337
JVC	314, 336, 337, 345, 346, 347
Kenwood	314, 336, 332, 337
LXI (Sears)	332, 305, 330, 335, 338
Magnavox	308, 309, 310
Marantz	314, 336, 337
Marta	332
Memorex	309, 335
Minolta	305, 304
Mitsubishi/ MGA	323, 324, 325, 326
Multitech	325, 338, 321
NEC	314, 336, 337
Olympic	309, 308
Optimus	327
Orion	317
Panasonic	308, 309, 306, 307
Pentax	305, 304
Philco	308, 309
Philips	308, 309, 310
Pioneer	308
Quasar	308, 309, 306
RCA/ PROSCAN	304, 305, 308, 309, 311, 312, 313, 310, 329

Manufacturer	Code
Realistic	309, 330, 328, 335, 324, 338
Sansui	314
Samsung	322, 313, 321
Sanyo	330, 335
Scott	312, 313, 321, 335, 323, 324, 325, 326
Sharp	327, 328
Signature 2000 (M. Ward)	338, 327
SV2000	338
Sylvania	308, 309, 338, 310
Symphonic	338
Tashiro	332
Tatung	314, 336, 337
Teac	314, 336, 338, 337
Technics	309, 308
Toshiba	312, 311
Wards	327, 328, 335, 331, 332
Yamaha	314, 330, 336, 337
Zenith	331

### Laserdisc Players

Manufacturer	Code
Sony	701
Panasonic	704, 710
Pioneer	702

### DVD/VCR Combination Units

Manufacturer	Code
Sony	601
Broksonic	605
JVC	604
Panasonic	609
Samsung	603
Toshiba	602

### DVD Players

Manufacturer	Code
Sony	751
Apex	762
General Electric	755
Hitachi	758
JVC	756
Magnavox	757
Mitsubishi	761
Oritron	759
Panasonic	753
Philips	757
Pioneer	752
RCA/Proscan	755
Samsung	758
Toshiba	754
Zenith	760

### Cable Boxes

Manufacturer	Code
Sony	230
Hamlin/Regal	222, 223, 224, 225, 226
Jerrold/G. I./ Motorola	201, 202, 203, 204, 205, 206, 207, 208, 218
Oak	227, 228, 229
Panasonic	219, 220, 221
Pioneer	214, 215
Scientific Atlanta	209, 210, 211
Tocom	216, 217
Zenith	212, 213

### Satellite Receivers

Manufacturer	Code
Sony	801
Dish Network	810
Echostar	810
General Electric	802
Hitachi	805
Hughes	804
Mitsubishi	809
Panasonic	803
RCA/ PROSCAN	802, 808
Toshiba	806, 807


# Using the Features


## Overview

This chapter describes how to use the features of your TV.

<i>Topic</i>	<i>Page</i>
Watching TV	52
Using the Program Guide	53
Using Screen Mode (models KD-30/34XS955 Only)	55
Using Screen Mode (models KD-36XS955 Only)	57
Using Favorite Channels	58
Using Other Equipment with Your TV Remote Control	59

# Watching TV

 For a complete list of all the functions of the remote control, see pages 45-50.

To Do This ...	Do This ...
Activate the remote control to operate the TV	Press <b>TV FUNCTION</b>
Turn on/off the TV	Press <b>TV POWER</b>
Tune directly to a channel	<p>To tune to analog channels, press <b>0-9</b> and then <b>ENTER</b>.</p> <p>For digital subchannels, press <b>0-9</b>, <b>⊙</b>, press <b>0-9</b> again, and then <b>ENTER</b>.</p> <p>For example, to select subchannel 21.13, press <b>2+1+⊙+1+3</b>, and then press <b>ENTER</b>.</p> <p> <b>You can also select channels using the program guide. See pages 53 for details.</b></p>
Adjust the volume	Press <b>VOL +/-</b>
Mute the sound	Press <b>MUTING</b> (press again to unmute)
Alternate back and forth between two channels	<p>Press <b>JUMP</b></p> <p>The TV alternates between the current channel and the last channel tuned.</p>
Display the current channel number (and other information)	Press <b>DISPLAY</b> once to display the channel number, current time, and channel label (if set). Press <b>DISPLAY</b> again to turn Display off.
Switch the TV's input to the VCR, DVD player, or other connected equipment	Press <b>TV/VIDEO</b> repeatedly to cycle through the video equipment connected to the TV's video inputs.
Change video and audio options, customize the TV's setup, set parental controls, and more	Press <b>MENU</b> to display the Menu. For details, see "Using the Menus" on page 77.
Switch the TV's input between sources connected to the TV's VHF/UHF and CABLE inputs	Press <b>ANT</b> to alternate between sources connected to the TV's VHF/UHF and CABLE inputs.